

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

FP18604-WO

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2004/017262

International filing date (day/month/year)

19.11.2004

Priority date (day/month/year)

20.11.2003

International Patent Classification (IPC) or both national classification and IPC

Applicant

DAIKIN INDUSTRIES, LTD.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/017262

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language
_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2004/017262

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	<u>1-5</u>	YES
	Claims	<u>6-10</u>	NO
Inventive step (IS)	Claims		YES
	Claims	<u>1-10</u>	NO
Industrial applicability (IA)	Claims	<u>1-10</u>	YES
	Claims		NO
2. Citations and explanations:			
<p>The inventions of claims 1 - 5 do not appear to involve an inventive step on account of document 1 (JP, 2000-198813, A (Daikin Industries, Ltd.), 18 July, 2000 (18.07.00), the claims, Par. No. [0032], example 1 & EP, 1170303, A1 & US, 6451962, B1 & WO, 2000-26260, A1) and document 2 (JP, 3-500547, A (E.I. Du Pont De Nemours & Co.), 07 February, 1991 (07.02.91), the claims, page 5, upper left column, lines 9-19, page 6, lower right column, line 17 to page 7, upper left column, line 11 & EP, 438395, B1 & WO, 89-12240, A1) cited in the ISR.</p> <p>Comparing the inventions of claims 1-5 with those described in document 1, the former differs from the latter in that unstable end groups of fluorine-containing polymers are subjected to stabilization processing by converting them into alkoxycarbonyl base, and/or a salt of carboxyl base with a quaternary nitrogen compound in the inventions of claims 1-5, while no mention is made in document 1 on such point.</p> <p>In document 2, however, described is that stabilization is easily attained by contacting the unstable end groups with ammonia or amines to convert them into alkoxycarbonyl base, and/or a salt of carboxyl base with a quaternary nitrogen compound before the stabilization process into a fluorine-containing polymer, so that a person skilled in the art could have easily conceived to convert the unstable end groups of polymers into alkoxycarbonyl base, and/or a salt of carboxyl base with a quaternary nitrogen compound in the inventions described in document 1.</p> <p>The inventions of claims 6-10 do not appear to be novel or to involve an inventive step as they are disclosed in document 1 and document 3 (WO, 01-18076, A1 (Daikin Industries, Ltd.), 15 March, 2001 (15.03.01), the claims, example 1 & EP, 1260526, A1) cited in the ISR.</p>			